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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/823,039	04/13/2004	Sang Shuhua	POSIP.68349	4106	
27629	27629 7590 08/08/2006			EXAMINER	
	PATTON LEE & UT	LANDRUM, EDWARD F			
200 OCEANGATE, SUITE 1550 LONG BEACH, CA 90802			ART UNIT	PAPER NUMBER	
	-,		3724		

DATE MAILED: 08/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

4	Application No.	Applicant(s)				
•	10/823,039	SHUHUA, SANG				
Office Action Summary	Examiner	Art Unit				
	Edward F. Landrum	3724				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 26 Ju	1) Responsive to communication(s) filed on <u>26 June 2006</u> .					
,						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to.	r election requirement					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The path of declaration is objected to by the Examiner. Note the attached office Action of John 170 102.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmant(a)						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom repriorition (i 10 10c)				

Art Unit: 3724

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 8-11, and 14-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kramer et al (U.S Patent No. 6,725,548), hereinafter Kramer, in view of Huggins et al (U.S Patent No. 6,533,291), hereinafter Huggins.

Applicant should note that the definition used for the term "aperture" is as follows:

An opening, such as a hole, gap, or slit. Source: *The American Heritage® Stedman's*Medical Dictionary Copyright © 2002, 2001, 1995 by Houghton Mifflin Company.

Published by Houghton Mifflin Company.

Regarding claims 1 and 21, Kramer teaches a blade clamping device comprising (see Figure 1): a rotatable sleeve (59) with a hole for a blade; a rotatable member (56) mounted coaxially with the rotatable sleeve (59); a blade carrier (60 and 58) with a blade receiving slot (62); an output shaft (44) coupled to the distal end of the blade carrier (60 and 58); a torsion spring (54) for biasing the clamping device to an engaged position (Col. 4, lines 36-39); a guide groove (64 and 66) communicating with the blade receiving slot (62); a locking member (50) mounted in the guide groove (64 and 66); a spiral surface (76) disposed at the proximal end of the rotatable member (56) wherein

Art Unit: 3724

the locking member (50) is moved into the engaged position by the spiral surface (Col. 3, lines 55-58).

Regarding claim 2, Kramer teaches (Col. 58-65; Col. 4, lines 32-39) the locking member (50) positively engaging the blade when the cylindrical rotatable sleeve (59) is biased bake from a non-clamping configuration to a clamping configuration.

Regarding 3, Kramer teaches (see Figure 1) the rotatable sleeve (59) being manipulable rotationally from the clamping configuration to the non-clamping configuration whereat the aperture is aligned with the blade receiving slot (62) for releasing the blade.

Regarding claim 4, Kramer teaches (see Figures 1, and 4-7) the blade carrier (60 and 58) rotatably contacts a front end surface of the rotatable member (56) and a rear rod of the blade carrier (60 and 58) passes through a central aperture of the rotatable member (56).

Regarding claim 5, Kramer teaches (Col. 4, lines 32-36) the torsion spring (54) being connected to the rotatable member (56) and to the connected to the output shaft (44) by way of the carrier member (60).

Regarding claim 6, Kramer teaches (Col. 4, lines 5-8; Col. 5, lines 21-26) two longitudinal grooves (86) on the outer surface of rotatable member (56) fitting into splines (87) on the rotatable sleeve (59) for the purpose of connecting the members to ensure when the rotatable sleeve (59) is rotated the rotatable member (56) rotates as well.

Art Unit: 3724

Regarding claims 7 and 12, Kramer teaches (see Figures 5 and 10) two protruding stop surfaces located on either side of a recess (57) located within the rotatable member (56).

Regarding claim 8, Kramer teaches (see Figure 1; Col. 5, lines 21-26) the rotatable sleeve (59) and the rotatable member (56) being mounted coaxially in a manner as to prevent relative rotation.

Regarding claim 9, Kramer teaches (See Figure 10) the rotatable member (56) having a main body (78) integrally formed at a proximal end with a cylindrical sleeve (area behind groove 78).

Regarding claim 10, Kramer teaches (see Figures 1 2, 4, and 5) the blade carrier (60 and 58) having a proximal end (located to the left of pin 50 in Figure 5) partly within the rotatable sleeve (59) such that the distally extending rod passes through and out of the distal end of the rotatable member (56) and is slidably seated on the proximal end of the cylindrical sleeve.

Regarding claim 11, Kramer teaches (see Figure 10) wherein the surface of the proximal end of the cylindrical main body (78) spirals axially along the interior of the cylindrical sleeve to define the spiral surface terminating at the proximal end of the cylindrical sleeve.

Regarding claim 14, Kramer teaches (see Figure 1) a restoring member (63) accommodated with the output shaft (44) and capable of cooperating with the distal end of the blade (42), wherein the restoring member (63) in the clamping configuration is

Art Unit: 3724

biased towards ejecting the blade and in the non-clamping configuration the restoring member (63) is at rest (Col. 3, lines 23-25).

Regarding claim 15, Kramer teaches (see Figure 1) the restoring member cooperating with a force-transmitting element found at the end of the output shaft (44).

Regarding claim 16, Kramer teaches (see Figure 6 and 7) the locking member (50) movable between an engaging position and a non-engaging position, wherein in the engaging position the locking member (50) positively engages the spiral surface (76).

Regarding claim 20, Kramer teaches (see Figure 16) a saw (99) comprising the clamping device.

Kramer teaches all of the elements of the current invention as stated above except the locking member being pivotally mounted in a guide groove in the blade carrier, and being substantially teardrop-shaped.

Huggins teaches (see Figures 2 and 3) a pivotally attached locking member (78) in a quick-release clamping mechanism that is substantially teardrop-shaped shaped and positionable between a first position (see Figure 3) and a second position (see Figure 2) by the insertion of the tool to be clamped (Col. 5, lines 6-27).

It would have been obvious to have modified the device of Kramer to incorporate the teachings of Huggins to provide a pivotal locking member within the rotatable sleeve so when the clamping device is taken apart to replace a part, or to be cleaned, there is less of a possibility of losing the locking member or misplacing the locking member.

Art Unit: 3724

Regarding claim 6, Kramer teaches the placement of the grooves and ribs opposite the design in the instant application, but since the Applicant has not described why the design choice provides an improvement over previous designs and it has been held that shifting parts to different locations does not constitute an invention since the operation of the device would not be modified, In re Japiske, 86 USPQ 70, it would have been obvious to switch the grooves to the rotatable sleeve and the ribs to the rotatable member if the design provided any advantages including decreased manufacturing time or a better connection between the two members.

Claims 7, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable 3. over the modified device of Kramer in view of Phillips et al (U.S Patent No. 5,575,071), hereinafter Phillips.

Kramer teaches all of the elements of the current invention as stated above except for the use of a limiting pin in concert with two stopper surfaces.

Phillips teaches (Col. 5, 8-18-) teach the use of a pin (36) and two stop surfaces (56 and 58) to limit the rotation of a rotatable member (38) attached to a spring (64) for the purpose of avoiding a user from damaging the spring (64) by over-rotation.

It would have been obvious to have modified Kramer to incorporate the teaching of Phillips to use the two stop surfaces as abutments for a pin located on the blade carrying member for the purpose of avoiding over rotation of the rotatable sleeve which could potentially damage the spring.

Response to Arguments

Art Unit: 3724

4. Applicant's arguments filed 6/26/2006 have been fully considered but they are not persuasive.

Regarding applicant's remarks that the hole of Kramer cannot be considered the aperture of the instant application, applicant never states that the aperture has to positively engage the blade. Applicant only claims that when the aperture is in an aligned position the blade can be inserted into the blade carrier, and when the aperture is non-aligned the spiral surface engages the locking surface causing the locking member to positively engage the blade, both of which Kramer accomplishes. Therefore the aperture of the rotatable sleeve can be positioned in both aligned and non-aligned positions as described in the instant application.

Huggins teaches a pivotally connected locking member as seen in Figure 2.

Furthermore, a groove is defined as a long and narrow channel. Therefore, Kramer can be considered to have a groove (64 and 66), the groove could also include the triangular end portion nearest reference numeral 45 in Figure 6.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Benjamin et al (U.S Patent No. 4,021,132) teaches a tool holder with an ejector mechanism. Salpaka (U.S Patent No. 5,573,255), Holland et al (U.S Patent No. 6,053,675), Seyerle (U.S Patent No. 5,722,309), Pascaloff et al (U.S Patent No. 6,638,290), Marinkovich et al (U.S Patent No. 6,209,208), McCurry et al (U.S Patent No. 5,987,758), and Becker (U.S Patent No. 2,948,559) teach tool clamping mechanisms.

Art Unit: 3724

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward F. Landrum whose telephone number is 571-272-5567. The examiner can normally be reached on Monday-Friday 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/823,039 Page 9

Art Unit: 3724

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/4/2006

BOYER D. ASHLEY SUPERVISORY PATENT EXAMINER